AMENDED CLAIMS

[received by the International Bureau on 22 July 2005 (22.07.05);
original claims 1-20 replaced by new claims 1-19 (3 pages).]

1. A method for preparing ready-to-use solid support for rapid ELISA, wherein the said method comprises addition of first monoclonal antibody, washing with buffer to remove unbound monoclonal antibody adding a stabilizer, removing excess stabilizer, air-drying of the bound stablilizer, addition of an appropriate second antibody and enzyme linked conjugate as third antibody together dissolved in buffer, lyophilising the said protein mixture and storing in a sealed package at a specified temperature.

2. A method as claimed in claim 1, wherein the first monoclonal antibody is raised against the protein/antigen to be detected.

3. A method as claimed in claim 1, wherein the first monoclonal antibody used is selected from a group consisting of monoclonal antibodies raised against Cry proteins and monoclonal antibodies against 5-enolpyruvylshikimate-3-phosphate synthase, wherein Cry protein is preferably selected from Cry1Ab, Cry1Ac Cry2Ab, Cry 9A, Cry 9B and Cry 9C.

4 A method as claimed in claim 1, wherein the buffer used for washing is phosphate buffer saline having a pH in the range of 6.8-7.2.

5. A method as claimed in claim 1, wherein buffer used for dissolving second and third antibody is selected from a group consisting of carbonate buffer and phosphate buffer, having pH in the range of 9.0-9.8.

6. A method as claimed in claim 1, wherein the stabilizer used is selected from a group consisting of Phosphate Buffered Saline, Fish Gelatin and Glycerol mixture and a Tris-buffer, Fish Gelatin and Glycerol mixture.

7. A method as claimed in claim 1, wherein the drying method used is either freeze drying or lyophilization.

8. A method as claimed in claim 1, wherein the blocking agent used is selected from the group consisting of ovalbumin, bovine serum albumin, bovine nonfat milk powder, casein, fish gelatin, porcine gelatin and lambda-carrageenan.

9. A method as claimed in claim 1, wherein the solid support used is selected from the group consisting of ELISA plate and microwell plate.

10. A method as claimed in claim 1, wherein the material for the solid support used is either polystyrene or polypropylene.

11. A method as claimed in claim 9, wherein the solid support is made of polystyrene.

12. A method as claimed in claim 1, wherein second antibody used is polyclonal antibody IgG raised against protein/antigen to be detected.

13. A method as claimed in claim 1, wherein second antibody used is polyclonal antibody IgG raised against corresponding Cry protein or IgG raised against 5-enolpyruvylshikimate-3-phosphate synthase.

14.A method as claimed in claim 1, wherein third antibody used is selected from the group consisting of polyclonal whole IgG conjugated to an enzyme, wherein whole IgG may be obtained from class Mammalia or class Aves.

15.A method as claimed in claim 14, wherein the enzyme used is selected from a group consisting of alkaline phosphatase and horseradish peroxidase

16. A rapid method for performing ELISA using ready-to-use solid support of claim 1 said method comprising steps of reconstituting the ready to use plates by adding appropriate amount of distilled water, adding test samples containing antigen/protein are dissolved in a suitable buffer, washing the plate after incubating for a required time period, followed by washing with suitable buffer, adding to the plate required chemical substrate and detecting for the presence of the antigen by measuring absorbance at a suitable wavelength.

17 A method as claimed in claim 16, wherein the chemical substrate is selected from the group consisting of para-nitrophenol phosphate, Nitro Blue Tetrazolium/5-Bromo-4-Chloro-3-Indolyl Phosphate, 2,2'-Azino-bis (3-Ethylbenz-thiazoline-6-Sulfonic Acid), o-Phenylenediamine, 3,3'-5,5'-Tetramethylbenzidine, o-Dianisidine and 5-Aminosalicylic Acid.

18. An immunoassay kit comprising of ready to use solid support of claim 1 for rapid ELISA .

19. A ready-to-use solid support of claim 1 for detection of protein or antigen